

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (CURRENTLY AMENDED) A print system, comprising:

an image input device which photoelectrically reads an image photographed on a photographic film so as to input the read image as image data of an input image;

an image processing device which performs image processing on the input image;

an image output device which outputs the processed image as an output image reproducing the image photographed on the photographic film to a predetermined recording medium;

a storage device which stores an image processing condition relative to each image when generating the output image reproducing the photographed image and image retrieval data for retrieving the image processing condition as image reproducing information when generating the output image reproducing the photographed image; and

a retrieval device which performs a retrieval operation on the storage device using the image retrieval data in accordance with an image reorder printing request and reads the image processing condition from the storage device,

wherein, when the image reorder printing request is made, an image designated for reorder printing is read photoelectrically from the photographic film, and the image processing is performed on the read image according to the image processing condition when generating the output image reproducing the photographed image retrieved by the retrieval device so that the image is output as an output image, and

wherein the image retrieval data is not based on any image processing condition embedded as a code in the image designated for reorder.

2. (PREVIOUSLY PRESENTED) The print system as claimed in claim 1, wherein the image retrieval data is image characteristics data fetched when generating compressed image data.

3. (PREVIOUSLY PRESENTED) The print system as claimed in claim 1, wherein compressed image data is also stored in the storage device.

4. (CURRENTLY AMENDED) The print system as claimed in claim 3, wherein the image retrieval data, the image processing condition and the compressed image data are individually related to each other, and when any one of these data is deleted, the rest of these data ~~is~~are deleted, or when any one of these data is updated, the rest of these data ~~is~~are updated.

5. (PREVIOUSLY PRESENTED) The print system as claimed in claim 3, wherein the image retrieval data, the image processing condition and the compressed image data are individually related to each other and managed on a database of the storage device every at least one or more of frame number, kind of film, type of camera, customer, particular ID of image, order received year/month/day, order received shop, printer, order, film format, type of film carrier, film mask, year/month/day/time of when photographed, image format and order terminal.

6. (ORIGINAL) The print system as claimed in claim 1, wherein the print system is further connected to the other print systems via a network, and the other print systems connected to the network are also retrieved when performing the retrieval operation using the image retrieval data upon handling the reorder of the image.

7. (ORIGINAL) The print system as claimed in claim 6, wherein the image reproducing information is managed by a server of the network, and the server is also retrieved when performing the retrieval operation.

8. (ORIGINAL) The print system as claimed in claim 1, wherein a retrieval range and a retrieval condition can be preset when performing the retrieval operation.

9. (PREVIOUSLY PRESENTED) The print system as claimed in claim 3, wherein the image reproducing information, the image retrieval data and the compressed image data are backed up at predetermined timing.

10. (ORIGINAL) The print system as claimed in claim 9, wherein the predetermined timing is any one of system startup, startup inspection, inspection on work finishing, system shutdown, system hang-up, time when instruction is given by an operator and software version up.

11. (ORIGINAL) The print system as claimed in claim 1, wherein the number of frames of storable image reproducing information is set in accordance with print system performance and resource, and further, is changeable.

12. (ORIGINAL) The print system as claimed in claim 2, wherein the image processing condition and the image characteristics data related thereto are independently stored as the image reproducing information, or a set of the

image processing condition and the image characteristics data related thereto is stored as the image reproducing information.

13. (ORIGINAL) The print system as claimed in claim 1, wherein the image reproducing information is obtained by loading image reproducing information of a predetermined print system or referring thereto at predetermined timing.

14. (ORIGINAL) The print system as claimed in claim 13, wherein the loaded image reproducing information can be deleted after an image reorder handling is completed.

15. (CURRENTLY AMENDED) A print system, comprising:

- an image input device which photoelectrically reads an image photographed on a photographic film so as to input the read image as image data of an input image;
- an image processing device which performs image processing on the input image;
- an image output device which outputs the processed image as an output image reproducing the image photographed on the photographic film to a predetermined recording medium;

a storage device which stores an image data after being processed by the image processing device and before being converted into an output format corresponding to the predetermined recording medium, as an image reproducing information when generating the output image reproducing the photographed image, together with an image identification code for specifying the image data; and

a retrieval device which performs a retrieval operation on the storage device using the image identification code in accordance with an image reorder printing request and reads the image reproducing information from the storage device,

wherein, when the image reorder printing request is made, the processed image data corresponding to the image designated for reorder printing is read from the storage device using the image identification code, and is output to the predetermined recording medium from the image output device, and

wherein the image identification code is sufficient to uniquely identify the processed image data.

16. (ORIGINAL) The print system as claimed in claim 15, wherein the processed image data stored as the image reproducing information is image data subjected to at least one image processing of electronic scaling processing,

color gradation, color density correction processing, sharpness processing, and dodging processing.

17. (ORIGINAL) The print system as claimed in claim 15, wherein the processed image data stored as the image reproducing information is related to each other and managed on a database of the storage device every at least one or more of frame number, kind of film, type of camera, customer, particular ID of image, order received year/month/day, order received shop, printer, order, film format, type of film carrier, film mask, year/month/day/time of when photographed, image format and order terminal.

18. (ORIGINAL) The print system as claimed in claim 15, wherein the print system is further connected to the other print systems via a network, and the other print systems connected to the network are also retrieved when retrieving the image reproducing information upon handling the reorder of the image.

19. (ORIGINAL) The print system as claimed in claim 18, wherein the processed image data stored as the image reproducing information is managed by a server of the network, and the server is also retrieved when performing the retrieval operation.

20. (ORIGINAL) The print system as claimed in claim 15, wherein the image reproducing information, the image retrieval data and the processed image data stored as the compressed image data are backed up at predetermined timing.

21. (ORIGINAL) The print system as claimed in claim 20, wherein the predetermined timing is any one of system startup, startup inspection, inspection on work finishing, system shutdown, system hang-up, time when instruction is given by an operator and software version up.

22. (ORIGINAL) The print system as claimed in claim 15, wherein a retrieval range and a retrieval condition can be preset when performing the retrieval operation.

23. (ORIGINAL) The print system as claimed in claim 15, wherein the number of frames of storable image reproducing information is set in accordance with print system performance and resource, and further, is changeable.

24. (ORIGINAL) The print system as claimed in claim 15, wherein the image reproducing information is obtained by loading image reproducing information of a predetermined print system at predetermined timing.

25. (ORIGINAL) The print system as claimed in claim 24, wherein the loaded image reproducing information can be deleted after an image reorder handling is completed.

26. (ORIGINAL) The print system as claimed in claim 1, wherein a selection can be made as to whether the image after the reorder handling is output using the same print system as used when generating the output image reproducing the image photographed on the photographic film, or using another print system.

27. (CURRENTLY AMENDED) A print system comprising:
an image input device which photoelectrically reads an image photographed on a photographic film so as to input the read image as image data of an input image;
an image processing device which performs image processing on the input image;

an image output device which outputs the processed image as an output image reproducing the image photographed on the photographic film to a predetermined recording medium;

a storage device which stores an image data after being processed by the image processing device and before being converted into an output format corresponding to the predetermined recording medium, an image processing condition relative to each image when generating an output image reproducing the photographed image, and an image retrieval data for specifying the image processing condition as an image reproducing information when generating the output image reproducing the photographed image;

a retrieval device which retrieves the processed image data or the image processing condition from the storage device using the image retrieval data in accordance with an image reorder printing request; and

a judgment device which judges whether or not there is a change between the image processing condition when the output image reproducing the photographed image is generated and that when the reorder is made,

wherein, when there is no change in the image processing condition upon the reorder, the image is output using the processed image data stored in the storage device, and

wherein, when there is a change in the image processing condition upon the reorder, the image is newly read from the photographic film, and the image

processing condition corresponding to the image stored in the storage device is accessed and changed so that image processing is performed to the read image according to the changed image processing condition, and

wherein the image retrieval data is not based on any image processing condition embedded as a code in the image newly read from the photographic film.

28. (ORIGINAL) The print system as claimed in claim 27, wherein even though there is a change in the image processing condition upon the reorder, when the change is within a preset allowable range, the image is output using the processed image data stored in the storage device.

29. (PREVIOUSLY PRESENTED) The print system as claimed in claim 27, wherein the storage device stores the image reproducing information only for a predetermined period, and stores the image retrieval data and the image processing condition of the image reproducing information after elapse of the predetermined period..

30. (ORIGINAL) The print system as claimed in claim 29, wherein the predetermined period can be preset by an operator.

31. (ORIGINAL) The print system as claimed in claim 27, further comprising a display capable of displaying an image,

wherein, retrieval result of the image reproducing information is displayed on the display upon the reorder.

32. (ORIGINAL) The print system as claimed in claim 31, wherein when a retrieval object is not found from the retrieval result, or when an error in retrieving is made, images listed as a second candidate and the following can be displayed, or instruction for retrieving can be given again.

33. (ORIGINAL) The print system as claimed in claim 27, further comprising a back-printing device which performs back-printing on a print of the output image,

wherein the back-printing showing retrieval result of the image reproducing information is performed upon the reorder.

34. (ORIGINAL) The print system as claimed in claim 27, wherein when the storage device stores the image reproducing information, the number of frames of storable image reproducing information is set in accordance with print system performance and resource, and further, is changeable, or further

optionally a selection can be made as to whether or not the compressed image data is stored.

35. (ORIGINAL) The print system as claimed in claim 27, wherein the image processing condition and the image characteristics data related thereto are independently stored as the image reproducing information, or a set of the image processing condition and the image characteristics data related thereto is stored as the image reproducing information.

36. (NEW) A system for reprints, comprising:
an image input device configured to preliminarily read and finely read an image designated for reorder from a photographic film to generate preliminary image data and fine image data, respectively;
a set up device configured to generate image retrieval data based on the preliminary image data generated by the image input device;
a retrieval device configured to retrieve an original image processing condition from a storage device based on the image retrieval data generated by the set up device, wherein the original image processing condition is a condition under which the image designated for reorder was originally processed; and

an image processing device configured to process the fine image data from the image input device using the original image processing condition retrieved by the retrieval device.

37. (NEW) The system for reprints as claimed in claim 36, wherein the image input device prescans the image designated for reorder to generate prescanned image data as the preliminary image data.

38. (NEW) The system for reprints as claimed in claim 37, wherein the set up device generates the image retrieval data based on image characteristics data, wherein the image characteristics data includes at least one of

a DC (direct component) of spatial frequency data made by discrete cosine transformation of the prescanned image data,

an average value of the blocks of the prescanned image data, wherein the prescanned image data is divided into blocks having predetermined dimensions,

a sum of the values of the blocks of the prescanned image data,

a maximum value of the blocks of the prescanned image data, and

a minimum value of the blocks of the prescanned image data.

39. (NEW) The system for reprints as claimed in claim 38, wherein in addition to the image characteristics data, the set up device generates the

image retrieval data based on a frame number of the photographic film of the image designated for reorder.

40. (NEW) The system for reprints as claimed in claim 36, wherein the image input device reads a frame number and a film ID of the photographic film of the image designated for reorder as the preliminary image data.

41. (NEW) The system for reprints as claimed in claim 36, further comprising:

a control panel section configured to display information to and to receive inputs from a user;

wherein the storage device stores a plurality of compressed image data for corresponding to a plurality of images,

wherein the retrieval device retrieves one or more of the plurality of compressed image data based on the image retrieval data,

wherein the control panel section displays the one or more of the plurality of compressed image data and selects a particular compressed image data based on the inputs from the user, and

wherein the retrieval device retrieves the original image processing condition corresponding to the particular compressed image data from the storage device.

42. (NEW) The system for reprints as claimed in claim 36, wherein the set up device does not generate the image retrieval data based any processing condition information embedded as a code within the image designated for reorder.

43. (NEW) A system for reprints, comprising:

- an image input device configured to preliminarily read and finely read an image designated for reorder from a photographic film to generate preliminary image data and fine image data, respectively;
- a set up device configured to generate image retrieval data based on the preliminary image data generated by the image input device;
- a storage device configured to store a plurality of processed image data corresponding to a plurality of previously processed images and configured to store an original image processing condition for each of the plurality of processed image data, wherein each of the original image processing condition is a condition under which each of the previously processed images was originally processed;
- a retrieval device configured to retrieve a particular original image processing condition from the storage device based on the image retrieval data generated by the set up device;

a judgment device configured to judge whether or not a current image processing condition and the particular original image processing condition are same; and

an image processing device configured to process the fine image data from the image input device using the current image processing condition when the judgment device determines that the current and the particular original image processing conditions are not the same,

wherein the image input device finely reads the image designated for reorder when the judgment device determines that the current and the particular original image processing conditions are not the same, and

wherein the retrieval device retrieves processed image data corresponding to the image designated for reorder when the judgment device determines that the current and the particular original image processing conditions are the same.

44. (NEW) The system for reprints as claimed in claim 43, wherein the image input device prescans the image designated for reorder to generate prescanned image data as the preliminary image data.

45. (NEW) The system for reprints as claimed in claim 44, wherein the set up device generates the image retrieval data based on image characteristics data, wherein the image characteristics data includes at least one of

a DC (direct component) of spatial frequency data made by discrete cosine transformation of the prescanned image data,

an average value of the blocks of the prescanned image data, wherein the prescanned image data is divided into blocks having predetermined dimensions,

a sum of the values of the blocks of the prescanned image data,

a maximum value of the blocks of the prescanned image data, and

a minimum value of the blocks of the prescanned image data.

46. (NEW) The system for reprints as claimed in claim 45, wherein in addition to the image characteristics data, the set up device generates the image retrieval data based on a frame number of the photographic film of the image designated for reorder.

47. (NEW) The system for reprints as claimed in claim 43, wherein the image input device reads a frame number and a film ID of the photographic film of the image designated for reorder as the preliminary image data.

48. (NEW) The system for reprints as claimed in claim 43, further comprising:

a control panel section configured to display information to and to receive inputs from a user;

wherein the storage device stores a plurality of compressed image data for corresponding to a plurality of images,

wherein the retrieval device retrieves one or more of the plurality of compressed image data based on the image retrieval data,

wherein the control panel section displays the one or more of the plurality of compressed image data and selects a particular compressed image data based on the inputs from the user, and

wherein the retrieval device retrieves the particular original image processing condition corresponding to the particular compressed image data from the storage device.

49. (NEW) The system for reprints as claimed in claim 43, wherein the set up device does not generate the image retrieval data based any processing condition information embedded as a code within the image designated for reorder.

50. (NEW) The system for reprints as claimed in claim 43, wherein the judgment device determines that the current and the particular original image processing conditions are the same when a difference between the current and the particular original processing conditions is within a predetermined level.